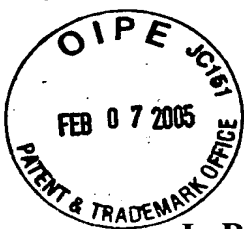


DOCKET NO.: NNI-0052

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Kent Davey

Confirmation No.: 4056

Application No.: 09/873,622

Group Art Unit: 2128

Filing Date: June 4, 2001

Examiner: Herng der Day

**For: METHOD FOR OPTIMIZING TRANSCRANIAL MAGNETIC
STIMULATION CORES AND MAGNETIC CORES PRODUCED THEREBY**

DATE OF DEPOSIT: February 2, 2005

I HEREBY CERTIFY THAT THIS PAPER IS BEING
DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID,
ON THE DATE INDICATED ABOVE AND IS
ADDRESSED TO THE COMMISSIONER FOR PATENTS,
P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

TYPED NAME: Vincent J. Roccia
REGISTRATION NO.: 43,887

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

☐ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☒ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☒ The fee of **\$180.00** as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of **\$180.00** as set forth in § 1.17(p).

- ☒ Copies of reference numbers **1 thru 52** listed on the attached Form PTO-1449 are enclosed herewith.

- ☐ Copies of reference numbers - on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

There are no listed references which are not in the English language.

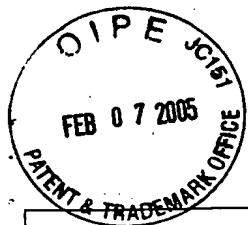
Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: **February 2, 2005**



Vincent J. Roccia
Registration No. **43,887**

WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439



| | | | |
|---|-----------|--|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. NNI-0052 | Application No. 09/873,622 |
| | | Applicant Kent Davey | |
| | | Filing Date June 4, 2001 | Group 2128 |
| | | Confirmation No. 4056 | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| | 1 | A. Cantano, P. Noel, "Transcranial Magnetic Stimulation: Interest in the Excitation Threshold", <i>Acta Neurologica Belgica</i> , 97, 1997 , 61 | |
| | 2 | Davey, K., "Rotating Field Analysis Using Boundary Element Methods", <i>IEEE Transactions on Magnetic</i> , May 1999 , 35(3), 1402-1405 | |
| | 3 | Davey, K.R. et al., "Use of Tensor Product Spines in Magnet Optimization", <i>IEEE Transactions on Magnetic</i> , May 1999 , 35(3), 1714-1717 | |
| | 4 | Davey, K.R., "Magnet Design Optimization Using Variable Metrics", <i>IEEE Transactions on Magnetic</i> , November 1995 , 31(6), 3566-3568 | |
| | 5 | G. Cerri, R. Deleo, F. Moglie, A. Schiavoni, "An Accurate 3 -D Model for Magnetic Stimulation of the Brain Cortex", <i>Journal of Medical Engineering and Technology</i> , 19(1), 1995 , 7-16 | |
| | 6 | G.A. Mouchawar, et al., "Guidelines for Energy-Efficient Coil:Coils Designed for Magnetic Stimulation of the Heart", <i>Magnetic Motor Stimulation: Basic Principles and Clinical Experience</i> , EEG Supplement 43, 1991 , 255-267 | |
| | 7 | John Cadwell, "Optimizing Magnetic Stimulator Design", <i>Magnetic Motor Stimulation: Basic Principles and Clinical Experience</i> , EEG Supplement 43, 1991 , 238-248 | |
| | 8 | Pridmore, S. md, "Rapid Transcranial Magentic Stimulation and Normalization of the Dexamethasone Suppression Test", <i>Psychiatry and Clinical Neurosciences</i> , 1999 , 53, 33-37 | |
| | 9 | Roth and Basser "A Model of the Stimulation of a Nerve Fiber by Electromagnetic Induction", <i>IEEE Transactions on Biomedical Engineering</i> , 37(6), 1990 , 588-596. | |
| | 10 | Ruohonen, J., "Transcranial Magnetic Stimulation: Modeling and New Techniques", <i>Department of Engineering Physics and Mathematics</i> , Laboratory of Biomedical Engineering, Helsinki University of Technology, Eshoo, Finland, 1998 , 1-50 | |
| EXAMINER | | DATE CONSIDERED | |



| | | |
|---|------------------------------------|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. NNI-0052 | Application No. 09/873,622 |
| | Applicant Kent Davey | |
| | Filing Date June 4, 2001 | Group 2128 |
| | Confirmation No. 4056 | |

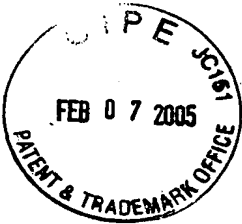
U. S. PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Name | Class | Subclass |
|------------------|----|-----------------|----------|-------------------|-------|----------|
| | 11 | 2003/0130706 A1 | 07/10/03 | Sheffield, et al. | 607 | 46 |
| | 12 | 2002/0103515 A1 | 08/01/02 | Davey, et al. | 607 | 66 |
| | 13 | 2002/0087201 A1 | 07/04/02 | Firlik, et al. | 607 | 45 |
| | 14 | 2001/0031906 A1 | 10/18/01 | Ishikawa, et al. | 600 | 13 |
| | 15 | 4,994,015 | 02/19/91 | Cadwell | 600 | 13 |
| | 16 | 5,078,674 | 01/07/92 | Cadwell | 600 | 13 |
| | 17 | 5,116,304 | 05/26/92 | Cadwell | 600 | 13 |
| | 18 | 6,179,769 B1 | 01/30/01 | Ishikawa, et al. | 600 | 9 |
| | 19 | 6,179,771 B1 | 01/30/01 | Mueller | 600 | 13 |
| | 20 | 6,402,678 B1 | 06/11/02 | Fischell, et al. | 600 | 13 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Country | Translation | |
|------------------|----|-----------------|----------|---------|-------------|----|
| | | | | | YES | NO |
| | 21 | WO 02/032504 A2 | 04/25/02 | PCT | | |
| | 22 | WO 02/094997 A2 | 11/28/02 | PCT | | |
| | 23 | WO 02/085449 A2 | 10/31/02 | PCT | | |
| | 24 | WO 02/09811 A1 | 02/07/02 | PCT | | |
| | 25 | EP 1 273 320 A1 | 01/08/03 | EPO | | |

| | |
|-----------------|------------------------|
| EXAMINER | DATE CONSIDERED |
|-----------------|------------------------|



| | | |
|---|------------------------------------|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. NNI-0052 | Application No. 09/873,622 |
| | Applicant Kent Davey | |
| | Filing Date June 4, 2001 | Group 2128 |
| | Confirmation No. 4056 | |

U. S. PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Name | Class | Subclass |
|------------------|----|-----------------|----------|------------------|-------|----------|
| | 26 | 2002/0091419 A1 | 07/11/02 | Firlik, et al. | 607 | 45 |
| | 27 | 2003/0004392 A1 | 01/02/03 | Tanner, et al. | 600 | 9 |
| | 28 | 2003/0023159 A1 | 01/30/03 | Tanner | 600 | 417 |
| | 29 | 2003/0028072 A1 | 02/06/03 | Fischell, et al. | 600 | 13 |
| | 30 | 2003/0088274 A1 | 05/08/03 | Gliner, et al. | 607 | 3 |
| | 31 | 2003/0097161 A1 | 05/22/03 | Firlik, et al. | 607 | 72 |
| | 32 | 2003/0195588 A1 | 10/16/03 | Fischell, et al. | 670 | 55 |
| | 33 | 2003/0204135 A1 | 10/30/03 | Bystritsky | 600 | 407 |
| | 34 | 6,198,958 B1 | 03/06/01 | Ives, et al. | 600 | 411 |
| | 35 | 6,663,556 B2 | 12/16/03 | Barker | 600 | 14 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Country | Translation | |
|------------------|----|-----------------|----------|---------|-------------|----|
| | | | | | YES | NO |
| | 36 | WO 02/089902 A2 | 11/14/02 | PCT | | |
| | 37 | WO 03/035163 A2 | 05/01/03 | PCT | | |
| | 38 | WO 02/089902 A2 | 11/14/02 | PCT | | |
| | 39 | WO 03/035163 A2 | 05/01/03 | PCT | | |
| | 40 | WO 04/082759 A2 | 09/30/04 | PCT | | |

EXAMINER

DATE CONSIDERED



| | | |
|---|------------------------------------|--------------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. NNI-0052 | Application No. 09/873,622 |
| | Applicant Kent Davey | |
| | Filing Date June 4, 2001 | Group 2128 |
| | Confirmation No. 4056 | |

U. S. PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Name | Class | Subclass |
|------------------|----|-----------------|----------|-------------------|-------|----------|
| | 41 | 2003/0050527 A1 | 03/13/03 | Fox, et al. | 600 | 13 |
| | 42 | 2003/0125786 A1 | 07/03/03 | Gliner, et al. | 607 | 116 |
| | 43 | 2004/0077921 A1 | 04/22/04 | Becker, et al. | 600 | 9 |
| | 44 | 2004/0010177 A1 | 01/15/04 | Rohan, et al. | 600 | 9 |
| | 45 | 5,299,569 | 04/05/94 | Wernicke, et al. | 607 | 45 |
| | 46 | 5,707,334 | 01/13/98 | Young | 600 | 9 |
| | 47 | 5,725,471 | 03/10/98 | Davey, et al. | 600 | 13 |
| | 48 | 6,086,525 | 07/11/00 | Davey, et al. | 600 | 13 |
| | 49 | 6,132,361 | 10/17/00 | Epstein, et al. | 600 | 13 |
| | 50 | 6,491,620 B1 | 12/10/02 | Davey | 600 | 9 |
| | 51 | 6,503,187 B1 | 01/07/03 | Ilmoniemi, et al. | 600 | 14 |
| | 52 | 6,527,695 B1 | 03/04/03 | Davey, et al. | 600 | 13 |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Country | Translation | |
|------------------|--|--------------|------|------------------------|-------------|----|
| | | | | | YES | NO |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | |